

APPENDIX A - CLAIM AMENDMENTS

Serial No.: 10/625,232
Docket No.: 22413-14

1. (Currently Amended) In the surgical treatment of ~~the~~^a human or animal body, a method of controlling excessive bleeding, the method comprising:

~~inserting~~ ~~providing~~ a device into the tissue or organ to be treated, the device comprising an applicator having at least one face and including a source of microwave power, the applicator being in the form of a waveguide for microwave transmission extending to one face of the applicator, and an array of needles each needle including a tissue-piercing distal tip, said array of needles arranged so as to extend from ~~on~~ said at least one face of the applicator, said applicator structured to be operably coupled to a source of microwave energy;

~~positioning~~ the said array of needles so that ~~one~~ the face of the applicator and the said array of needles surround a volume of the tissue to be treated, ~~the~~ said array of needles serving to confine the microwave energy field ~~formed within the applicator~~; and extending the tissue-piercing distal tips of said array of needles from said at least one face of the applicator into said volume of tissue to be treated at a point on a planned incision line;

applying said microwave energy confined by the said needles to the volume of the tissue to be treated at said point on the planned incision line;

removing the tissue-piercing distal tips of said array of needles from the volume of tissue to be treated;

advancing the applicator along the planned incision line, extending the tissue-piercing distal tips of said array of needles into a volume of tissue to be treated along said planned incision line, and applying said microwave energy confined by said needles to the volume of the tissue to be treated along said planned incision line until said microwave energy has been applied along the length of said incision line; and

resecting the tissue from the body.

2. (Previously presented) A method as claimed in claim 1 further comprising applying microwave energy to the volume of the tissue to be treated for a time sufficient to raise the temperature of the tissue or organ by 20 to 30 degrees C.

3. (Currently Amended) A method of surgery on the human or animal body to control excessive bleeding, the method comprising:

- (a) inserting a device into the tissue or a part of an organ to be treated, the device comprising an applicator having structured to be operably coupled to a source of electromagnetic ~~power~~energy, said applicator including and an array of needles extending from thereon said applicator, each needle having tissue-piercing means;
- (b) positioning the tissue-piercing means of said array of needles into a desired depth volume of a volume of the tissue to be treated;
- (c) applying the electromagnetic power energy via the needles to the volume of the desired depth of the volume of tissue to be treated to heat the tissue; and
- (d) advancing the tissue-piercing means of said array of needles along the length of a planned incision line; and
- (e) making an incision into the desired depth of the volume of tissue which has been heated along said planned incision line; and
- (f) resecting the tissue or part of organ from the body.

4. (Currently Amended) A The method as claimed in claim 3, in which the step of applying electromagnetic ~~power~~energy comprising comprises heating said tissue by 20 to 30° C.

5. (Currently Amended) A The method as claimed in claim 3, in whichwherein said electromagnetic ~~power~~energy is provided at microwave frequency.

6. (Currently Amended) A The method as claimed in claim 3, in whichwherein said array includes at least one row of said needles.

7. (Currently Amended) A-The method as claimed in claim 6, which includes further including a plurality of said rows of said needles, each said row having a plurality of said needles.

8. (Currently Amended) A-The method as claimed in claim 7, wherein in which each said row is straight.

9. (Currently Amended) A-The method as claimed in claim 8, wherein in which said rows are parallel to one another.

10. (Currently Amended) A-The method as claimed in claim 6, wherein in which said array includes two said rows of needles.

11. (Currently Amended) A-The method as claimed in claim 3, wherein in which said array of needles is rectangular.

12. (Currently Amended) A-The method as claimed in claim 3, wherein in which said needles are parallel with one another.

13. (Currently Amended) A-The method as claimed in claim 3, wherein in which said needles are the same length as one another.

14. (Currently Amended) A-The method as claimed in claim 3, in which wherein said needles are straight.

15. (Currently Amended) A-The method as claimed in claim 3, wherein positioning the tissue-piercing means of said array of needles to the desired depth of the volume of the tissue to be treated further including includes providing said applicator with an applicator head, and positioning the applicator head against a region of tissue and actuating said applicator to cause

extend said tissue-piercing means of said array of needles to extend into said desired depth of the volume of tissue.

16. (Currently Amended) A-The method as claimed in claim 15, in which wherein said actuating said applicator to cause extend said tissue-piercing means of said array of needles to extend into said tissue includes extending said needle array in unison.

17. (Currently Amended) A-The method as claimed in claim 3 which includes further comprising providing said applicator with a handle.

18. (Currently Amended) The method of claim 3-15 wherein extending the tissue-piercing means of said array of needles extending into a desired depth of a volume of the tissue to be treated further includes retracting said needles from said tissue from said applicator are retractable.

19. (New) The method as claimed in claim 1, wherein said array of needles includes at least one row of said array of needles.

20. (New) The method as claimed in claim 19, further including a plurality of said rows of said needles, each said row having a plurality of said needles.

21. (New) The method as claimed in claim 7, wherein each said row is straight.

22. (New) The method as claimed in claim 21, wherein said rows are parallel to one another.

23. (New) The method as claimed in claim 20, wherein said array includes two said rows of needles.

24. (New) The method as claimed in claim 1, wherein said array of needles is rectangular.

25. (New) The method as claimed in claim 1, wherein said needles are parallel with one another.
26. (New) The method as claimed in claim 1, wherein said needles are the same length as one another.
27. (New) The method as claimed in claim 1, wherein said needles are straight.
28. (New) The method as claimed in claim 1, wherein extending the tissue-piercing distal tips of said array of needles into said volume of tissue further includes actuating said applicator to cause said tissue-piercing distal tips of said array of needles to extend into said tissue.
29. (New) The method as claimed in claim 28, wherein said actuating said applicator to extend said tissue-piercing distal tips of said array of needles into said tissue includes extending said needle array in unison.
30. (New) The method as claimed in claim 1 further comprising providing said applicator with a handle.
31. (New) The method of claim 28 wherein extending the tissue-piercing distal tips of said array of needles into said volume of tissue further comprises retracting said needles from said tissue.
32. (New) The method of claim 1 wherein said source of microwave energy comprises a waveguide for microwave transmission to said array of needles.
33. (New) The method of claim 3 wherein positioning the tissue-piercing means of said array of needles into a desired depth of a volume of the tissue to be treated further comprises extending the tissue-piercing means into said desired depth of a volume of tissue to be treated.

34. (New) The method of claim 33 wherein said array of needles are moveable with respect to said applicator and said extending is accomplished by actuating said needles with an actuator.
35. (New) The method of claim 34 wherein said extending the tissue-piercing means of said array of needles into a desired depth of a volume of the tissue to be treated includes retracting said needles from said tissue.
36. (New) The method of claim 35 wherein steps (b), (c), (d), and (e) are repeated until electromagnetic energy has been applied along the length of the planned incision line.